

A contact medium as recited in claim 17, wherein the polymer or combination of polymers of the continuous phase is selected from the group consisting of epoxies, polyacetals, polyacrylates, polyacrylics, polyacrylamides, polyalkylamides, polyamides, polyamideimides, polycarbonates, polycarboxylicdihydric esters, polyimides, polyesters, polycellulose acetate butyrates, polydiglycidyletheralkyl/aryldiols, polysilicones, polysiloxanes, polysiloxides, polystyrenes, polysucrose acetate butyrates, polysulfonamides, polysulfones, polyurethanes, polyvinylacetals, and polyvinylhalogens.

[c28]

A contact medium as recited in claim 25, wherein the polymer or combination of polymers of the continuous phase is selected from the group consisting of epoxies, polyacetals, polyacrylates, polyacrylics, polyacrylamides, polyalkylamides, polyamides, polyamideimides, polycarbonates, polycarboxylicdihydric esters, polyimides, polyesters, polycellulose acetate butyrates, polydiglycidyletheralkyl/aryldiols, polysilicones, polysiloxanes, polysiloxides, polystyrenes, polysucrose acetate butyrates, polysulfonamides, polysulfones, polyurethanes, polyvinylacetals, and polyvinylhalogens.

Abstract of Disclosure

[0052] A gas/liquid contact media for use in an evaporative cooler has a fibrous material structure impregnated with a polymer-based continuous phase designed to have solubility and interfacial tension properties that promote intimate wetting with in-service water while inhibiting scale deposition, and an overall cationic charge on the polymer to repel positively charged particles or ions in the water in order to further prevent scale build-up on the media.

Figures